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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/736,921

12/16/2003

Di Wei

10691; 60246-220

5823

26096 7590 05/16/2008
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EXAMINER

MAYEKAR, KISHOR

ART UNIT

PAPER NUMBER

1795

MAIL DATE

DELIVERY MODE

05/16/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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1. The reply brief filed 19 February 2008 has been entered and considered.
2. The examiner would like to respond to one of the remarks raised in the reply brief, "whether the specific citations to the specification support the claimed subject matter. Respectfully, the cited paragraphs of the specification illustrate the capability of the inner layer to react with carbon oxide compounds. That is, the inner layer may react with carbon monoxide and carbon dioxide, which is a product of reaction from the intermediate layer" and the support of the reaction in the "first sentence of the abstract of the Sakurai article". **First**, the first sentence discloses that gold deposited on titanium oxide is reactive with **"both carbon dioxide and carbon monoxide at temperature between 150 and 400 °C"** (emphasis added). And, paragraphs 32 and 37 of the specification as Appellant's argument under section III of the Appeal Brief that "the intermediate layer oxidizes contaminants to produce carbon dioxide and that the inner layer (a third layer) oxidizes carbon dioxide". However there as paragraph 37 discloses **"At room temperature, the inner layer 46 oxidizes carbon monoxide to carbon dioxide"** (emphasis added). There is a **contradiction** in the remarks to the reaction between the reaction support in the first sentence of the abstract of the Sakurai article at temperature between 150 and 400 °C and the disclosure reaction in paragraph 37 at room temperature (emphasis added). **Second**, the above remarks do not respond "the limitations that **the first layer** is operative to react with a target substance to produce a first intermediate

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substance, the second layer is operative to react with the first intermediate substance to form a second intermediate substance, and the third layer is operative to react with the second intermediate substance" as raised by the examiner in the final Office action of 14 May 2007 and in the examiner answer of 20 December 2007.

3. The application has been forwarded to the Board of Patent Appeals and Interferences for decision on the appeal.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-

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217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kishor Mayekar/
Primary Examiner, Art Unit 1795